

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
18 March 2004 (18.03.2004)

PCT

(10) International Publication Number
WO 2004/023641 A1

(51) International Patent Classification⁷: **H03B 5/36**
(21) International Application Number:
PCT/EP2003/009034

(22) International Filing Date: 14 August 2003 (14.08.2003)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
02388057.8 6 September 2002 (06.09.2002) EP
60/411,184 16 September 2002 (16.09.2002) US

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(81) Designated States (*national*): AE, AG, AL, AM, AT (utility model), AI, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ (utility model), CZ, DE (utility model), DE, DK (utility model), DK, DM, DZ, EC, EE (utility model), EE, ES, FI (utility model), FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK (utility model), SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

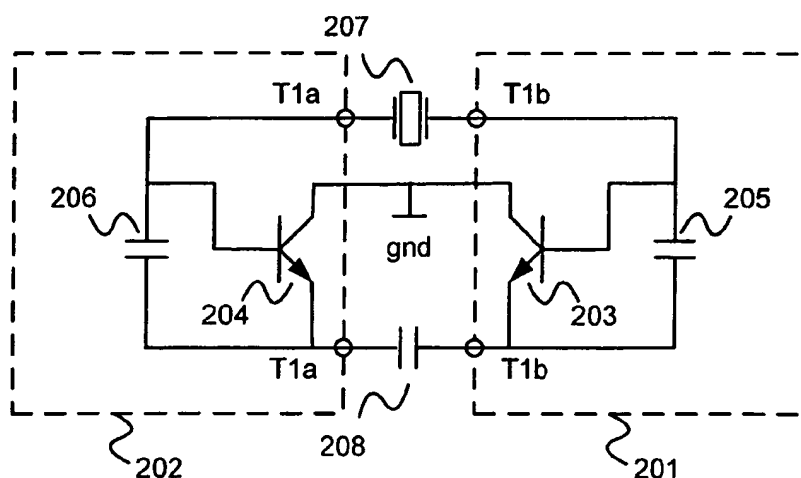
(84) Designated States (*regional*): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

— with international search report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: AN OSCILLATOR AND AN INTEGRATED CIRCUIT



(57) Abstract: A balanced crystal oscillator circuit comprising: a piezoelectric element X_{tal} (207; 215; 222,221; 313); a first oscillator subcircuit (202; 210; 218; 302) incorporating a transistor (204;212;220;304); and a second oscillator subcircuit (201;209;217;301) incorporating a transistor (203; 211; 219; 303); wherein the transistors each have different types of transistor terminals (C,B,E; D;G;S), and wherein the oscillator subcircuits are configured with at least three interconnections. Each interconnection comprise a pair of like type of transistor terminals; wherein a first of said interconnections constitutes a connection to a ground reference (gnd); a second of said interconnections is via a first resonator element (207;215;223;313); and a third of said interconnections is via a second resonator element (208;216;224;314); said first and second circuits are arranged to interact by means of said first and second resonator elements to form a balanced oscillator signal. A dual common base or a dual common collector configuration is preferred.

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